

and 1b attached hereto.

REMARKS

Applicants have enclosed corrected informal drawings of Figures 1a and 1b.

Applicants have also enclosed hand amended pages showing the corrections for the Examiner's convenience. The hand amended pages are captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE". Applicants will file formal drawings of all figures at a later date.

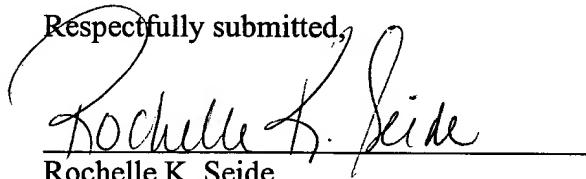
In the Wild Boar sequence in the original version of Figure 1a, two blocks of ten nucleotides were inadvertently swapped. Thus, nucleotide numbers 68-77 and 78-87 appeared in the wrong order. Amendment of Figure 1a to correct this defect is supported by the specification as originally filed at page 68, lines 28-30.

In the original version of Figure 1b, the second amino acid in the Wild Boar sequence was inadvertently identified as "N", i.e. asparagine. The specification as originally filed indicates that Figure 1b shows the "derived amino acid sequence ... of the porcine aMSH-R gene" at page 25, lines 2-3. The original paper sequence listing filed concurrently with the original specification indicated that the codon corresponding to the amino acid at position two is GAC which encodes aspartic acid (D), not asparagine. *See e.g.* Seq ID No. 37, positions 162-164.

These amendments to the figures are fully supported by the application as filed and do not constitute new matter. These amendments bring Figures 1a and 1b into conformity with the Substitute Sequence Listing filed on June 1, 2001.

Applicants do not believe any fee is due with this submission. However, please charge any fee required for this filing overpayment to Deposit Account No. 02-4377. Two copies of this paper are enclosed.

Respectfully submitted,



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Enclosures

VERSION WITH MARKINGS TO SHOW CHANGES MADE

FIG. 1

a: Nucleotide sequence

Wild Boar	CTCCCTGCTCCCTGCTCCCTGGCGGGACG	1
Meishan	ATG CCT GTG CTT GGC CCG GAG AGG AGG	27
Pietrain	.....	.....
Wild Boar	CTG CTG GCT TCC CTC AGC TCC GCG CCC CCA GCC GCC CCC	75
Meishan	CGG CCG CCA	.....
Pietrain	CC	.....
Wild Boar	ACG CCT CGG GCT CAG ACC AAC CAG ACG GGC CCC CAG TGC CTG GAG GTG TCC	126
Meishan	.....	.....
Pietrain	.....	.....
Wildboar	ATT CCC GAC GGG CTC TTC CTC AGC CTG GGG CTG GTG AGC CTC GTG GAG AAC	177
Meishan	.....	.....
Pietrain	.....	.....
Largewhite	.....	.....
Hampshire	.....	.....
Duroc	.....	.....
Wildboar	GTG CTG GTG GTG GCC GCC ATC GCC AAG AAC CGC AAC CTG CAC TCG CCC ATG	228
Meishan	.....	.....
Pietrain	.....	.....
Largewhite	.....	.....
Hampshire	.....	.....
Duroc	.....	.....
Wildboar	TAC TAC TTC GTC TGC CTG GCC GTG TCG GAC CTG CTG GTG AGC GTG AGC	279
Meishan	.....	.....
Pietrain	.....	.....
Largewhite	.....	.....
Hampshire	.....	.....
Duroc	.....	.....
Wildboar	AAC GTG CTG GAG ACG GCC GTG CTG CTG CTG GAG GCG GGC GGC CTG GCC	329
Meishan	... A ...	... C ...
Pietrain	.....	.....
Largewhite	.....	.....
Hampshire	.....	.....
Duroc	.....	.....
Wildboar	GCC CAG GCC GCC GTG GTG CAG CAG CTG GAC AAT GTC ATG GAC GTG CTC ATC	380
Meishan	.....	... C ...
Pietrain	.....	... A ...
Largewhite	.....	... A ...
Hampshire	.....	... A ...
Duroc	.....	... A ...

↖ i boxed should be swapped

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Wildboar	TGC GGC TCC ATG GTG TCC AGC CTC TGC TTC CTG GGC GCC ATC GGC GTG GAC	431
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	CGC TAC GTG TCC ATC TTC TAC GCG CTG CGC TAC CAC AGC ATC GTG ACG CTG	483
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	CCC CGC GCG GGG CGG GCT ATC GCG GCG ATC TGG GCG GGC AGC GTG CTC TCC	534
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	.... T.	
Wildboar	AGC ACC CTC TTC ATC GCC TAC TAC CAC CAC ACG GCC GTC CTG CTG GGC CTC	585
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	GTC AGC TTC TTC GTG GCC ATG CTG GCG CTC ATG GCG GTA CTG TAC GTC CAC	636
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	ATG CTG GCC CGG GCC TGC CAG CAC GGC CGG CAC ATC GCC CGG CTC CAC AAG	687
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	ACG CAG CAC CCC ACC CGC CAG GGC TGC GGC CTC AAG GGC CGG GCC ACC CTC	738
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	.... A.	

FIG. 1 CONT'D

VERSION WITH MARKINGS TO SHOW CHANGES MADE

789
 Wildboar ACC ATC CTG CTG GGC GTC TTC CTC CTC TGC TGG GCA CCC TTC TTC CTG CAC
 Meishan
 Pietrain
 Largewhite
 Hampshire
 Duroc

840
 Wildboar CTC TCC CTC GTC GTC CTC TGC CCC CAG CAC CCC ACC TGC GGC TGC GTC TTC
 Meishan
 Pietrain
 Largewhite
 Hampshire
 Duroc

885
 Wildboar AAG AAC GTC AAC CTC TTT CTG GCC CTC GTC ATC TGC AAC TCC ATC
 Meishan
 Pietrain
 Largewhite
 Hampshire
 Duroc

b. Amino acid sequence

D
 Wildboar ?P^DGLFLSLG LVSLVENVLV VAAIAKNRNL HSPMYYFVCC LAVSDILLVSV SNVLETAVLL
 Meishan
 Largewhite
 Hampshire
 Duroc

159
 Wildboar LLEAGALAAQ AAVVQQLDNV MDVЛИCGSMV SSLCFLGAIA VDRYVSIFYA LRYHSIVTLP
 Meishan
 Largewhite
 Hampshire
 Duroc

219
 Wildboar RAGRAIAAIW AGSVLSSTLF IAYYHHTAVL LGLVSFFVAM LALMAVLYVH MLARACQHGR
 Meishan
 Largewhite
 Hampshire
 Duroc

279
 Wildboar HIARLHKTOH PTRQGCGLKG AATLTILLGV FLLCWAPFFL HLSLVVLCPO HPTCGCVFKN
 Meishan
 Largewhite
 Hampshire
 Duroc

Wildboar VNLFLALVIC NSI
 Meishan
 Largewhite
 Hampshire
 Duroc

Wildboar	TGC GGC TCC ATG GTG TCC AGC CTC TGC TTC CTG GGC GCC ATC GGC GTG GAC	431
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	CGC TAC GTG TCC ATC TTC TAC GCG CTG CGC TAC CAC AGC ATC GTG ACG CTG	483
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	CCC CGC GCG GGG CGG GCT ATC GCG GCG ATC TGG GCG GGC AGC GTG CTC TCC	534
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	.... T	
Wildboar	AGC ACC CTC TTC ATC GCC TAC TAC CAC CAC ACG GCC GTC CTG CTG GGC CTC	585
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	GTC AGC TTC TTC GTG GCC ATG CTG GCG CTC ATG GCG GTA CTG TAC GTC CAC	636
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	ATG CTG GCC CGG GCC TGC CAG CAC GGC CGG CAC ATC GCC CGG CTC CAC AAG	687
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....
Wildboar	ACG CAG CAC CCC ACC CGC CAG GGC TGC GGC CTC AAG GGC CGG GCC ACC CTC	738
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	.... A	

FIG. 1 CONT'D

Pietrain
Largewhite
Hampshire
Duroc

Wildboar	AAG AAC GTC AAC CTC TTT CTG GCC CTC GTC ATC TGC AAC TCC ATC	885
Meishan	....
Pietrain	....
Largewhite	....
Hampshire	....
Duroc	....

b. Amino acid sequence

Wildboar	?PDGLFLSLG LVSLVENVLV VAAIAKNRNL HSPMYYFVCC LAVSDILVSV SNVLETAVLL	99
Meishan	.....
Largewhite	.....	M.....P
Hampshire	.....
Duroc	.....

Wildboar	LLEAGALAAQ AAVVQQLDNV MDVLICGSMV SSLCFLGAIA VDRYVSIFYA LRYHSIVTLP	159
Meishan	.....
Largewhite	.....	N.....
Hampshire	.....	N.....
Duroc	.....

Wildboar RAGRAIAAIW AGSVLSSTLF IAYYHHTAVL LGLVSFFVAM LALMAVLYUH MLARACQHGR 219
Meishan

Largewhite

Hampshire

Duroc

Wildboar	HIARLHKTQH PTROGCGLKG AATLTILLGV FLLCWAPFFL HLSLUVLCPQ HPTCCGVFRKN	279
Meishan	.....
Largewhite	.....
Hampshire	.....
Duroc	.....

Wildboar VNLFLALVIC NSI
Melsian
Largewhite
Hampshire
Curos

FIG. 1 CON'T

FIG. 1

a: Nucleotide sequence

Wild Boar	CTCCCTGCTCCCTGCTCCCTGGCGGGACG	1	ATG CCT GTG CTT GGC CCC GAG AGG AGG	27
Meishan	.....		.....
Pietrain	.....		.....
Wild Boar	CTG CTG GCT TCC CTC AGC TCC GCG CCC CCA GCC GCC CCC	75	CGC CTC GCG	
Meishan	.....		.....
Pietrain	.....		.....	CC
Wild Boar	CTG GCC GCC AAC CAG ACC AAC CAG CAG ACG GGC CCC CAG TGC CTG GAG GTG TCC	126		
Meishan	.....		.....
Pietrain	.....		.....
Wildboar	ATT CCC GAC GGG CTC TTC CTC AGC CTG GGG CTG GTG AGC CTC GTG GAC AAC	177		
Meishan	.....		.....
Pietrain	.....		.....
Largewhite	.....		.....
Hampshire	.....		.....
Duroc	.....		.....
Wildboar	GTG CTG GTG CTG GCC GCC ATC GCC AAG AAC CGC AAC CTG CAC TCG CCC ATG	228		
Meishan	.....		.....
Pietrain	.....		.....
Largewhite	.....		.....
Hampshire	.....		.....
Duroc	.....		.....
Wildboar	TAC TAC TTC GTC TGC CTG GCC GTG TCG GAC CTG CTG GTG AGC CTG AGC	279		
Meishan	.....		.....
Pietrain	.....		.....
Largewhite	.....		.....
Hampshire	.....		.....
Duroc	.....		.....
Wildboar	AAC GTG CTG GAG ACG GCC GTG CTG CTG CTG GAG GCG GGC GCC CTG GCC	329		
Meishan	.... A ..		.... C ..	
Pietrain	.....		.....
Largewhite	.....		.....
Hampshire	.....		.....
Duroc	.....		.....
Wildboar	GCC CAG GCC GCC GTG GTG CAG CAG CTG GAC AAT GTC ATG GAC GTG CTC ATC	380		
Meishan	.....		.... C ..	
Pietrain	.....		.....
Largewhite	.....		.....	A ..
Hampshire	.....		.....	A ..
Duroc	.....		.....	A ..